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APPLICATION NO.	F	TILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/889,734 07/20/2001		Stefan Johansson	P137US00	9032		
466	7590	11/20/2002				
YOUNG &			EXAMINER			
ARLINGTO		TREET 2ND FLOOI 22202	DINH, TUAN T			
				ART UNIT	PAPER NUMBER	
				2827		
				DATE MAILED: 11/20/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No	·	Applicant(s)						
		09/889,734		JOHANSSON ET AL.						
		Examiner		Art Unit						
	The MAILING DATE of this communication and	Tuan T Dinh		2827						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status 1)⊠	Responsive to communication(s) filed on 06 s	Santambar 2003	,							
2a)⊠	Responsive to communication(s) filed on <u>06 September 2002</u> . This action is FINAL . 2b) This action is non-final.									
3)	Since this application is in condition for allowa			secution as to the	morite in					
	closed in accordance with the practice under on of Claims	Ex parte Quayle	e, 1935 C.D. 11, 45	53 O.G. 213.	IIICIIIS IS					
4) Claim(s) 28-54 is/are pending in the application.										
4a) Of the above claim(s) <u>30,34-38 and 45</u> is/are withdrawn from consideration.										
5) Claim(s) is/are allowed.										
6)⊠	6)⊠ Claim(s) <u>28,29,32,39-44,46 and 48-54</u> is/are rejected.									
	Claim(s) 31,33,47 is/are objected to.									
	Claim(s) are subject to restriction and/o	or election require	ement.							
	on Papers The specification is objected to by the Evenine	·-								
	The specification is objected to by the Examine		stad to by the Free	-!						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.										
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.										
If approved, corrected drawings are required in reply to this Office action.										
12) The oath or declaration is objected to by the Examiner.										
Priority u	nder 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).										
a)[☐ All b)☐ Some * c)☐ None of:									
	1. Certified copies of the priority documents have been received.									
	2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.										
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).										
	☐ The translation of the foreign language procedure.cknowledgment is made of a claim for domest									
Attachment		-								
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	4) _ 5) _ 6) _	•	(PTO-413) Paper No(s) atent Application (PTO-						

Art Unit: 2827

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Embodiment I (Figures 1-3) in Paper No. 6 is acknowledged. The traversal is on the ground(s) that claim 30 reads on Figure 1a-1c, Figure 4 is partially of the early Figures 1-3. This is not found persuasive because applicant has been elected Figures 1-3 in Paper No. 6 and did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Also, Claims 30, 34-38, which has an elastic deformation, are not teach in Figures 1-3, the claims 30 and 45 having limitation of "the elastic deformation 38" and motion principles" that are not described in the Figures 1-3 of the specification at all.

The requirement is still deemed proper and is therefore made FINAL. Claims 30, 34-38, and 45 are withdrawn from further consideration as being drawn to non-elected subjected matter.

Claim Objections

2. Claim 38 objected to because of the following informalities:

Claim 38, lines 1-2, change "according to claim 38" to -according claim 36--.

Appropriate correction is required.

Art Unit: 2827

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 31, 33, 47 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification is silent regarding "an elastic contact force (30, 32)", line 3.

The specification is described elements (30, 32), which are force (page 8, line 5), contact force (page 9, line 1), and narrow tab (32, page 9, line 6).

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 41-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 41, it is unclear. The phrase of "the flexible printed circuit board is provided with geometrical structures which are engagable to other ones of said geometrical structures and to other member of said transducer microsystem" is not understood.

Art Unit: 2827

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

8. Claims 28-29, 32, 39-44, 46, 48-54 are rejected under 35 U.S.C. 102(e) as being anticipated by Scott (US. 6,118,072).

As to claims 28-29, 32, 44, 46, and 48-49, Scott discloses a device (10, column 3, lines 62-67), which are one of a filter, power divider, an amplifier, or etc..., capable of being a transducer microsystem applied in micro-electromechenical motor and a method as shown in figures 1-35 comprising

a main structural member (12, column 3, line 59) being a flexible circuit board (flexible circuit 12 includes a flexible substrate 22, column 4, line 19), consisting a dominating part of a support framework of entire said transducer microsystem; and

a number of electromechanical components (24, column 4, lines 26-2 9), which are shape memory (column 4, lines 28-29) of an electromechanical transducer, physically attached to said main structural member (12),

Art Unit: 2827

said flexible printed circuit board (12) comprises electrical connections (conductors 35-39, column 6, lines 30-32) to said components (42-46) of said electromechanical transducer.

As to claims 39-40, Scott discloses the transducer microsystem (10) as shown in figures 1-35 wherein said flexible circuit board (12) constitutes a casing (tube 14) of said transducer microsystem, said flexible circuit board (12) comprises a polyimide material (column 4, lines 63-65).

As best understood to claims 41-43, and 50-54, Scott discloses the microsystem and method as shown in figures 19-23 wherein said flexible circuit board (12) is provided with geometrical structures (column 8, lines 35-63).

Allowable Subject Matter

9. Claims 31, 33, and 47 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

None of the references cited teach or suggest the transducer microsystem and method comprising a flexible circuit board being elastically deformed to apply an elastic contact force.

Response to Arguments

10. Applicant's arguments with respect to claims 28-29, 31-33, 38-44, and 46-54 have been considered but are moot in view of the new ground(s) of rejection.

Art Unit: 2827

Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 703-306-5856. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-1341 for regular communications and 703-305-1341 for After Final communications.

Art Unit: 2827

Page 7

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TD

November 15, 2002.

ALBERT W PALADINI

ALBERT W. PALADINI PRIMARY EXAMINER